

FIG. 1

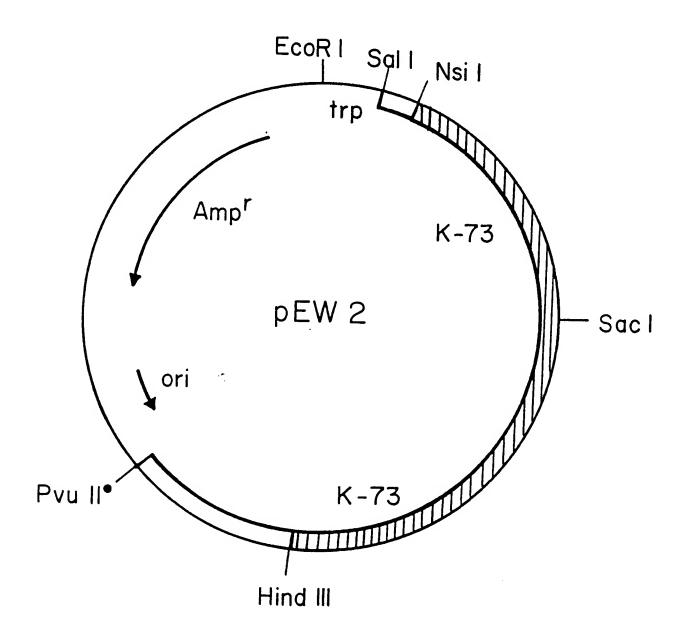


FIG. 2

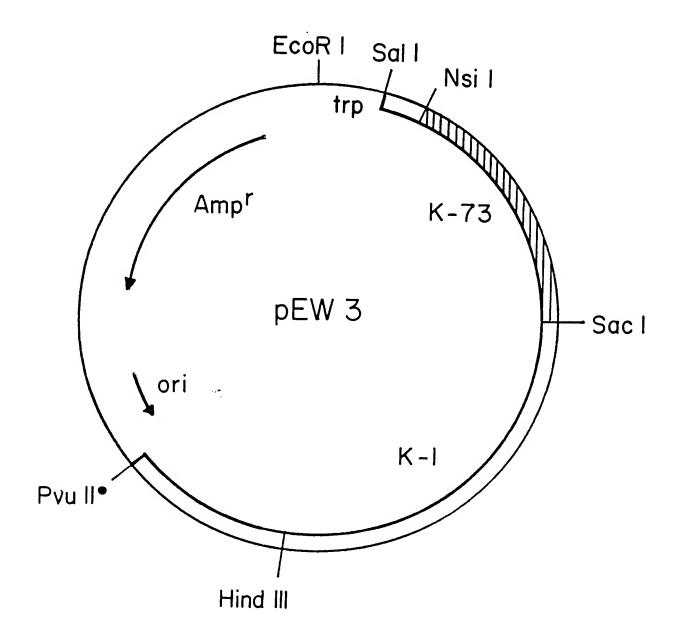


FIG. 3

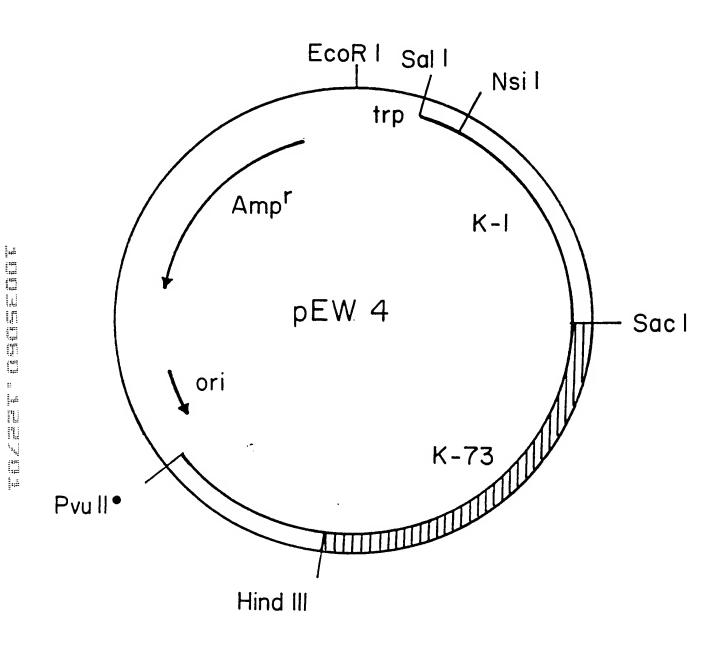


FIG. 4

		AA I AGAAAC I			200
TTCCTTGTCG	CTAACGCAAT	TTCTTTTGAG	TGAATTTGTT	CCCGGTGCTG	•
GATTTGTGTT	AGGACTAGTT	GATATAATAT	GGGGAATTTT	TEGTCCCTCT	600
CAATGGGACG	CATTTCTTGT	ACAAATTGAA	CAGTTAATTA	ACCAAAGAAT	
AGAAGAATTC	GCTAGGAACC	AAGCCATTTC	TAGATTAGAA	GGACTAAGCA	700
ATCTTTATCA	AATTTACGCA	GAATCTTTTA	GAGAGTGGGA	AGCAGATCCT	
ACTAATCCAG	CATTAAGAGA	AGAGATGCGT	ATTCAATTCA	ATGACATGAA	B00
CAGTGCCCTT	ACAACCGCTA	TTCCTCTTTT	TGCAGTTCAA	AATTATCAAG	
TTCCTCTTTT	ATCAGTATAT	GTTCAAGCTG	CAAATTTACA	TTTATCAGTT	900
TTGAGAGATG	TTTCAGTGTT	TGGACAAAGG	TGGGGATTTG	ATGCCGCGAC	
TATCAATAGT	CGTTATAATG	ATTTAACTAG	GCTTATTGGC	AACTATACAG	1000
ATTATGCTGT	ACGCTGGTAC	AATACGGGAT	TAGAACGTGT	ATGGGGACCG	
GATTCTAGAG	ATTGGGTAAG	GTATAATCAA	TTTAGAAGAG	AATTAACACT	1100
AACTGTATTA	GATATCGTTG	CTCTGTTCCC	GAATTATGAT	AGTAGAAGAT	
ATCCAATTCG	AACAGTTTCC	CAATTAACAA	GAGAAATTTA	TACAAACCCA	1200
GTATTAGAAA	ATTTTGATGG	TAGTTTTCGA	GGCTCGGCTC	AGGGCATAGA	
AAGAAGTATT	AGGAGTCCAC	ATTTGATGGA	TATACTTAAC	AGTATAACCA	1300
TCTATACGGA	TGCTCATAGG	GGTTATTATT	ATTGGTCAGG	GCATCAAATA	
ATGGCTTCTC	CTGTAGGGTT	TTCGGGGCCA	GAATTCACTT	TTCCGCTATA	1400
TGGAACTATG	GGAAATGCAG	CTCCACAACA	ACGTATTGTT	GCTCAACTAG	
		TTATCGTCCA			1500
		ACAACTATCT			
		ATTTGCCATC			1600
		GAAATACCGC			
CCTAGGCAAG	GATTTAGTCA	TCGATTAAGC			1700
	AATAGTAGTG	TAAGTATAAT	AAGAGCT (e	nd hd - 73)	
(start		CCAACGT		GCATCGCAGT	1900
		TCCTTCATCA			
	ACTAATCTTG			AAAGGACCAG	2000
		CTTCGAAGAA			
	TAAATATTAC	TGCACCATTA			2100
		CAAATTTACA			
	TAATCAGGGT				2200
	CCGGAAGCTT				
	GGATCAAGTG				2300
		GATCGAATTG	• •		
		TTTAGAAAGA		CGGTGAATGA	2400
	TCTTCCAATC	AAATCGGGTT			
ATCATATTGA		AATTTAGTTG	AGTGTTTATC	AGATGAATTT	2500
IGTCTGGATG	AAAAACAAGA	ATTETCCGAG	AAAGTCAAAC	ATGCGAAGCG	
ACTTAGTGAT	GAGCGGAATT	TACTTCAAGA	TCCAAACTTC	AGAGGGATCA	2600
ATAGACAACT	AGACCGTGGC	TERARAGERAA	GTACGGATAT	TACCATCCAA	

(start HD-73)

CGAACATCAA TGAATGCATT CCTTATAATT GTTTAAGTAA CCCTGAAGTA GAAGTATTAG GTGGAGAAAG AATAGAAACT GGTTACACCC CAATCGATAT 500

ATG GATAACAATC 400

ATAGACAACT AGACCGTGGC TGGAGAGGAA GTACGGATAT TACCATCCAA GGAGGCGATG ACGTATTCAA AGAGAATTAC GTTACGCTAT TGGGTACCTT 2700

TGATGAGTGC TATCCAACGT ATTTATATCA AAAAATAGAT GAGTCGAAAT

TAAAAGCCTA TACCCGTTAT CAATTAAGAG GGTATATCGA AGATAGTCAA 2800 GACTTAGAAA TCTATTTAAT TCGCTACAAT GCAAAACATG AAACAGTAAA TGTGCCAGGT ACGGGTTCCT TATGGCCGCT TTCAGCCCAA AGTCCAATCG 2900 GAAAGTGTGG AGAGCCGAAT CGATGCGCGC CACACCTTGA ATGGAATCCT GACTTAGATT GTTCGTGTAG GGATGGAGAA AAGTGTGCCC ATCATTCGCA 3000 TCATTTCTCC TTAGACATTG ATGTAGGATG TACAGACTTA AATGAGGACC TAGGTGTATG GGTGATCTTT AAGATTAAGA CGCAAGATGG GCACGCAAGA CTAGGGAATC TAGAGTTTCT CGAAGAGAAA CCATTAGTAG GAGAAGCGCT AGCTCGTGTG AAAAGAGCGG AGAAAAAATG GAGAGACAAA CGTGAAAAAT TGBAATGGBA AACAAATATC GTTTATAAAG AGGCAAAAGA ATCTGTAGAT GCTTTATTTG TAAACTCTCA ATATGATCAA TTACAAGCGG ATACGAATAT 3300 TGCCATGATT CATGCGGCAG ATAAACGTGT TCATAGCATT CGAGAAGCTT ATCTGCCTGA GCTGTCTGTG ATTCCGGGTG TCAATGCGGC TATTTTTGAA 3400 GAATTAGAAG GGCGTATTTT CACTGCATTC TCCCTATATG ATGCGAGAAA TGTCATTAAA AATGGTGATT TTAATAATGG CTTATCCTGC TGGAACGTGA 3500 AAGGGCATGT AGATGTAGAA GAACAAAACA ACCAACGTTC GGTCCTTGTT CTTCCGGAAT GGGAAGCAGA AGTGTCACAA GAAGTTCGTG TCTGTCCGGG TCGTGGCTAT ATCCTTCGTG TCACAGCGTA CAAGGAGGGA TATGGAGAAG GTTGCGTAAC CATTCATGAG ATCGAGAACA ATACAGACGA ACTGAAGTTT 3700 AGCAACTGCG TAGAAGAGGA AATCTATCCA AATAACACGG TAACGTGTAA TGATTATACT GTAAATCAAG AAGAATACGG AGGTGCGTAC ACTTCTCGTA 3800 ATCGAGGATA TAACGAAGCT CCTTCCGTAC CAGCTGATTA TGCGTCAGTC TATGAAGAAA AATCGTATAC AGATGGACGA AGAGAGAATC CTTGTGAATT 3900 TAACAGAGGG TATAGGGATT ACACGCCACT ACCAGTTGGT TATGTGACAA AAGAATTAGA ATACTTCCCA GAAACCGATA AGGTATGGAT TGAGATTGGA 4000 GAAACGGAAG GAACATTTAT CGTGGACAGC GTGGAATTAC TCCTTATGGA GGAA (end HD-1)

FIG. 5B

PNINECIPYNCLSNPEVEVLGGERIE L T QFLL E V Ρ F Р Ι D Ι S \mathbf{L} S S F G A G V Y Ι G Ι F G Ρ S Q WDAF \mathbf{L} V Q Ι \mathbf{E} Q L Ι N O R Ι Ι W EE SNLY ΙΥΑ Ε S F RE ARN QAI S RLEGL Q W Ε D L R E TA PΑ E M R ΙQ FNDM N S ΑL T Ι P L F V N Y Q V Ρ L LS V Y V QAANL H L S VLRD V S V F G 0 YNDL T I G N Y Т F D A Α T I N S R R L D Y Α V R W G S RDWV RYNQ FRRE T Т G L E R V W G Ρ D L L V P S R R Y P IRT V S QLT R E Ι Y V Α L F N Y D Т N S S QGI Ε S I R S D G F R G Α R PН Y Y W Ι Т Ι Y T D АН R G Y SGHQ I MAS P V G G F Т F L Y G Т MG NAAP QQR IVA Q L G Q G V Y R R P F N I G I N N QLS V L D G T Ε F T S S Т L Q Y K S Т I G Т S S N L Ρ SAV Y R G V D SLD E P P 0 N N NV R S H R L S Η V S MF R S G F S N S S V S Ι I R A O G F F R S Α \mathbf{E} F NN Ι Ι P S S Q Ι Τ Q Ι P \mathbf{L} T K T S W ОН KGP G F T G ILRR T S Ρ G Ι S Т T S V V G D Q TAPLS QRYRVRIRYA S Т T ΝL Q F Η T S V I S S GSNLQ S G S G QGN F S Α T F R V I N Μ S S V F T L SAHVFNS G N Ε V Y Ι Т F S N G D Р F F Y D T S F Ε V Τ \mathbf{E} Α Ε LΕ RAQKA V N Ε ΥH D Q V S N LVE С S Ε C Q Ι GLKTD V \mathbf{T} D Ι L D Ν S Ε KVKHA ΚR LSDE RNLL 0 D E ΚQ ELTIQ Ι N RQLD RGWR G S \mathbf{T} DΙ G GDDV F ΚE N Y V C ΥP Т ΥL ΥQ KIDE SKLKA T Т F D Ε Y L G IYLIRYNAKHE RGYIED SQDL E T V Ν V Ρ G Т IGKCGEPNR C A S P P H LΕ W Ρ D L W ΡL AOS Ε KCAHHSHHFS L D Ι D V G C T D L N C S D G GNLE F GVWV Ι F ΚI K T Q D G H A R L L Ε ΚP L AEKKWRDKR EKL Ε E R VKR W Т V G EALA KEAKE S V DAL F V N S QYD QLQA D T Ν Ι Α М Ι Η VΙ DKRVH Ι R E AYLP Ε L S Ρ G V N Α Α Ι F E A A S GRIF Т A F S L Y D A R N V I K N G D F N N G L S C W Р WE K GH V D V Ε Ε Q NN QR S V L V L Ε Α Ε V S Q Ε Ι L R TA YKE G Y G Ε G C V T Ι ΗЕ Ι G R G Y V V Т E K F S Ν CVEE Ε Ι ΥP N N T V C N D Y Т V N D L G T S R N R G YNEA Р S V P Α D Y S V Y 0 Ε Ε Y G Α Y RREN E FNRG YRD Т Ρ V G EE T D G P C Y \mathbf{L} Ρ KS Y YFPETDKVWIEIGETEGT F ΚE LΕ ELLLMEE

(start HD-1) ATGG ATAACAATCC GAACATCAAT GAATGCATTC CTTATAATTG TTTAAGTAAC CCTGAAGTAG AAGTATTAGG 600 TGGAGAAAGA ATAGAAACTG GTTACACCCC AATCGATATT TCCTTGTCGC TAACGCAATT TCTTTTGAGT GAATTTGTTC CCGGTGCTGG ATTTGTGTTA 700 GGACTAGTTG ATATAATATG GGGAATTTTT GGTCCCTCTC AATGGGACGC ATTTCCTGTA CAAATTGAAC AGTTAATTAA CCAAAGAATA GAAGAATTCG 800 CTAGGAACCA AGCCATTTCT AGATTAGAAG GACTAAGCAA TCTTTATCAA ATTTACGCAG AATCTTTTAG AGAGTGGGAA GCAGATCCTA CTAATCCAGC 900 ATTAAGAGAA GAGATGCGTA TTCAATTCAA TGACATGAAC AGTGCCCTTA CAACCGCTAT TCCTCTTTTG GCAGTTCAAA ATTATCAAGT TCCTCTTTTA 1000 TCAGTATATG TTCAAGCTGC AAATTTACAT TTATCAGTTT TGAGAGATGT TTCAGTGTTT GGACAAAGGT GGGGATTTGA TGCCGCGACT ATCAATAGTC GTTATAATGA TTTAACTAGG CTTATTGGCA ACTATACAGA TTATGCTGTG CGCTGGTACA ATACGGGATT AGAGCGTGTA TGGGGACCGG ATTCTAGAGA 1200 TTGGGTAAGG TATAATCAAT TTAGAAGAGA GCTAACACTT ACTGTATTAG ATATCGTTGC TCTATTCTCA AATTATGATA GTCGAAGGTA TCCAATTCGA 1300 ACAGTITCCC AATTAACAAG AGAAATTTAT ACGAACCCAG TATTAGAAAA TTTTGATGGT AGTTTTCGTG GAATGGCTCA GAGAATAGAA CAGAATATTA 1400 GGCAACCACA TCTTATGGAT ATCCTTAATA GTATAACCAT TTATACTGAT GTGCATAGAG GCTTTAATTA TTGGTCAGGG CATCAAATAA CAGCTTCTCC 1500 TGTAGGGTTT TCAGGACCAG AATTCGCATT CCCTTTATTT GGGAATGCGG GGAATGCAGC TCCACCCGTA CTTGTCTCAT TAACTGGTTT GGGGATTTTT 1600 AGAACATTAT CTTCACCTTT ATATAGAAGA ATTATACTTG GTTCAGGCCC AAATAATCAG GAACTGTTTG TCCTTGATGG AACGGAGTTT TCTTTTGCCT 1700 CCCTAACGAC CAACTTGCCT TCCACTATAT ATAGACAAAG GGGTACAGTC GATTCACTAG ATGTAATACC GCCACAGGAT AATAGTGTAC CACCTCGTGC 1800 GGGATTTAGC CATCGATTGA GTCATGTTAC AATGCTGAGC CAAGCAGCTG GAGCAGTTTA CACCTTGAGA GCTCAACGT (stop HD-1) (start HD-73) CCT ATGTTCTCTT GGATACATCG TAGTGCTGAA TTTAATAATA TAATTGCATC GGATAGTATT 1800 ACTCAAATCC CTGCAGTGAA GGGAAACTTT CTTTTTAATG GTTCTGTAAT TTCAGGACCA GGATTTACTG GTGGGGACTT AGTTAGATTA AATAGTAGTG 1900 GAAATAACAT TCAGAATAGA GGGTATATTG AAGTTCCAAT TCACTTCCCA TCGACATCTA CCAGATATCG AGTTCGTGTA CGGTATGCTT CTGTAACCCC 2000 GATTCACCTC AACGTTAATT GGGGTAATTC ATCCATTTTT TCCAATACAG TACCAGCTAC AGCTACGTCA TTAGATAATC TACAATCAAG TGATTTTGGT 2100 TATTITGAAA GTGCCAATGC TTTTACATCT TCATTAGGTA ATATAGTAGG TGTTAGAAAT TTTAGTGGGA CTGCAGGAGT GATAATAGAC AGATTTGAAT 2200 TTATTCCAGT TACTGCAACA CTCGAGGCTG AATATAATCT GGAAAGAGCG

CAGAAGGCGG TGAATGCGCT GTTTACGTCT ACAAACCAAC TAGGGCTAAA 2300 AACAAATGTA ACGGATTATC ATATTGATCA AGTGTCCAAT TTAGTTACGT ATTTATCGGA TGAATTTTGT CTGGATGAAA AGCGAGAATT GTCCGAGAAA 2400 GTCAAACATG CGAAGCGACT CAGTGATGAA CGCAATTTAC TCCAAGATTC AAATTTCAAA GACATTAATA GGCAACCAGA ACGTGGGTGG GGCGGAAGTA 2500 CAGGGATTAC CATCCAAGGA GGGGATGACG TATTTAAAGA AAATTACGTC ACACTATCAG GTACCTTTGA TGAGTGCTAT CCAACATATT TGTATCAAAA 2600 AATCGATGAA TCAAAATTAA AAGCCTTTAC CCGTTATCAA TTAAGAGGGT ATATCGAAGA TAGTCAAGAC TTAGAAATCT ATTTAATTCG CTACAATGCA 2700 AAACATGAAA CAGTAAATGT GCCAGGTACG GGTTCCTTAT GGCCGCTTTC AGCCCAAAGT CCAATCGGAA AGTGTGGAGA GCCGAATCGA TGCGCGCCAC 2800 ACCTTGAATG GAATCCTGAC TTAGATTGTT CGTGTAGGGA TGGAGAAAAG TGTGCCCATC ATTCGCATCA TTTCTCCTTA GACATTGATG TAGGATGTAC AGACTTAAAT GAGGACCTAG GTGTATGGGT GATCTTTAAG ATTAAGACGC AAGATGGGCA CGCAAGACTA GGGAATCTAG AGTTTCTCGA AGAGAAACCA TTAGTAGGAG AAGCGCTAGC TCGTGTGAAA AGAGCGGAGA AAAAATGGAG AGACAAACGT GAAAAATTGG AATGGGAAAC AAATATCGTT TATAAAGAGG 3100 CAAAAGAATC TGTAGATGCT TTATTTGTAA ACTCTCAATA TGATCAATTA CAAGCGGATA CGAATATTGC CATGATTCAT GCGGCAGATA AACGTGTTCA 3200 TAGCATTCGA GAAGCTTATC TGCCTGAGCT GTCTGTGATT CCGGGTGTCA ATGCGGCTAT TTTTGAAGAA TTAGAAGGGC GTATTTTCAC TGCATTCTCC 3300 CTATATGATG @GAGAAATGT CATTAAAAAT GGTGATTTTA ATAATGGCTT ATCCTGCTGG AACGTGAAAG GGCATGTAGA TGTAGAAGAA CAAAACAACC AACGTTCGGT CCTTGTTGTT CCGGAATGGG AAGCAGAAGT GTCACAAGAA GTTCGTGTCT GTCCGGGTCG TGGCTATATC CTTCGTGTCA CAGCGTACAA 3500 GGAGGGATAT GGAGAAGGTT GCGTAACCAT TCATGAGATC GAGAACAATA CAGACGAACT GAAGTTTAGC AACTGCGTAG AAGAGGAAAT CTATCCAAAT 3600 AACACGGTAA CGTGTAATGA TTATACTGTA AATCAAGAAG AATACGGAGG TGCGTACACT TCTCGTAATC GAGGATATAA CGAAGCTCCT TCCGTACCAG 3700 CTGATTATGC GTCAGTCTAT GAAGAAAAAT CGTATACAGA TGGACGAAGA GAGAATCCTT GTGAATTTAA CAGAGGGTAT AGGGATTACA CGCCACTACC AGTTGGTTAT GTGACAAAAG AATTAGAATA CTTCCCAGAA ACCGATAAGG TATGGATTGA GATTGGAGAA ACGGAAGGAA CATTTATCGT GGACAGCGTG 3900 GAATTACTCC TTATGGAGGA A (end HD-73)

FIG. 7B

C Ι Ρ YNCLS EVE MDN Ρ Ν ΙN Ε ΝP VLGG T Ρ Ι S L T Q F L L S Ε P F Y Ι L S F V G G V P Ι Ι W G Ι F G Ρ S Q W D A F V Q ΙE 0 L Ι N 0 Ι R Ε Ε Ι R Ι S R L E G L S N L Y 0 Y A Ε S F R \mathbf{E} 0 Α W Ε P RE EMRIQFNDM N S ALT T A Ι P Т N Ρ ΑL \mathbf{L} L V Y ΥV QAANL V \mathbf{L} R S Q V Ρ \mathbf{L} L S V H LS D V V F 0 R L I G R G F D Α Α T Ι N S R Y NDЬ T N Y T D Y Α V W Т Ε V G Ρ D S R D W V R YNQ FRR V Y N G L R W \mathbf{E} \mathbf{L} Т \mathbf{L} Ι Α F S S RRYP Ι RTVS QL R Ε Ι Υ V Ν Y D Т T N MAQRI QNIRQ P L G S F R G Ε PHL V Ε N F D M D Ι S Т F S GHQ I TAS Ι Т Y D V Η R G N Y WP V S G PVLV S F F \mathbf{L} F G N A G NAAP \mathbf{L} Т G L G Ι F Ι L G S G P L F V G T E S Ρ Y R R Ι N N QE L Т NL Р S Т Ι YRQRG TVDSL D V Ι P P A L Т Q D N S S HVTM S QAA V Ρ R Α G F S Η R L L G Α V Y T L R Α 0 Μ F S Ι Η R SA Ε F N N Ι IASD S Ι T 0 I Ρ Α V K G W S V Ι S G P G F Т G G D LVR L N S S G N N Ι L F Ν Y A Ρ T G Y V Ρ Ι Η F S T S R Y R V R V R S V Т Ρ Ι F S V Т S G S S Ι N T Ρ Α T Α \mathbf{L} D N \mathbf{L} S S N 0 D S R F G Y S Ν Α T S L G N Ι V G V N S T Α Ι T R F Ε F Ι Р V TA L Ε Α Ε Y Ν L \mathbf{E} R Α 0 K Α V N F Α S Ν V Т D Y Η Ι D 0 V S Ν L V Т Y L S D TN QLG L K T Ε K V KHA K R L S D ERNL C L D EKR Ε L S L O D S N R G Ι ΤI K D Ι N R Q P Ε W G G S Т G Q G G D D V F K Y V TL S G T F D E C ΥP T ΥL Y Q ΚI D Ε S K L ΚA F Т R S Q Ι ΥL Ι R Y Y Ι Ε D D L Ε N A ΚH E Т V L R G GKCGEP GT G S W P L SAQ S P Ι N R C Α Ρ H L Ε W C G E KCAHHSHHF S L D Ι D V G T P D L D C S R D E D L G V W V Ι F ΚI ΚT QDGHA R L G N L Ε F E Ε R V K R ΑΕ KKWRD KREKL E Т ΚP L V G Ε Α L Α Ε W Ν S Q Y Α K Ε S D Α F V N O Y D L O A D T V L N Ε L S Ι Η A A D ΚR V Η S Ι R Α Y L Ρ Ε V Ρ G V N Т Α F S L Y D Α R N V Ι K Ν D F N \mathbf{L} Ε Ε Ε G R Ι F G N G Ν V K G Η V D V Ε Ε Q NN Q R S V L V V Р E W Ε Ε V S W Ι YKE Ε C Ρ G Y \mathbf{L} R V T Α G Y G G C V Т Ι Η Q Ε V R V G R Ι Ε N N T D Ε L K F S N C V Ε Ε Ε Ι Y Ρ N N T V T C N D Y Y S E P V V N 0 Ε E Y G G Α Т R N R G Y N Α S Ρ Α D Y Α C E RRENP R GYRD Y Т Ρ S Y T D G F N Ρ L V Y V Τ ΚE L E Y F PETDKVWIEIGETE GT V D VELLLME

		HD-73)		GATAACAATC	
	TGAATGCATT		GTTTAAGTAA		
GAAGTATTAG	GTGGAGAAAG	i AATAGAAACT	GGTTACACCC	CAATCGATAT	-500
TTCCTTGTCG	CTAACGCAAT	TTCTTTTGAG	G TGAATTTGTT	CCCGGTGCTG	
GATTTGTGTT	AGGACTAGTT	GATATAATAT	GGGGAATTTT	TEGTCCCTCT	600
CAATGGGACG	CATTTCTTGT	ACAAATTGAA	CAGTTAATTA	ACCAAAGAAT	
AGAAGAATTC	GCTAGGAACC	AAGCCATTTC	TAGATTAGAA	GGACTAAGCA	700
ATCTTTATCA	AATTTACGCA	GAATCTTTTA	GAGAGTGGGA	AGCAGATCCT	
ACTAATCCAG	CATTAAGAGA	AGAGATGCGT	ATTCAATTCA	ATGACATGAA	800
CAGTGCCCTT	ACAACCGCTA	TTCCTCTTTT	TGCAGTTCAA	AATTATCAAG	
TTCCTCTTTT	ATCAGTATAT	GTTCAAGCTG	CAAATTTACA	TTTATCAGTT	900
TTGAGAGATG	TTTCAGTGTT	TGGACAAAGG	TGGGGATTTG	ATGCCGCGAC	
TATCAATAGT	CGTTATAATG	ATTTAACTAG	GCTTATTGGC	AACTATACAG	1000
ATTATGCTGT	ACGCTGGTAC	AATACGGGAT	TAGAACGTGT	ATGGGGACCG	
GATTCTAGAG	ATTGGGTAAG	GTATAATCAA	TTTAGAAGAG	AATTAACACT	1100
AACTGTATTA	GATATCGTTG	CTCTGTTCCC	GAATTATGAT	AGTAGAAGAT	
ATCCAATTCG	AACAGTTTCC	CAATTAACAA	GAGAAATTTA	TACAAACCCA	1200
GTATTAGAAA	ATTTTGATGG	TAGTTTTCGA	GGCTCGGCTC		
AAGAAGTATT	AGGAGTCCAC	ATTTGATGGA	TATACTTAAC	AGTATAACCA	1300
TCTATACGGA	TGCTCATAGG	GGTTATTATT	ATTESTCAGE		
ATGGCTTCTC	CTGTAGGGTT		GAATTCACTT	TTCCGCTATA	1400
TGGAACTATG			ACGTATTGTT	GCTCAACTAG	
GTCAGGGCGT	GTATAGAACA		CTTTATATAG		1500
AATATAGGGA	TAAATAATCA				
TGCTTATGGA					1600'
GAACGGTAGA	TTCGCTGGAT	GAAATACCGC		CAACGTGCCA	
CCTAGGCAAG				TGTTTCGTTC	1700
AGGCTTTAGT	AATAGTAGTG	TAAGTATAAT			1700
(start		CCAACGT		GCATCGCAGT	1900
	ATAATATAAT		CAAATTACAC		1700
AACAAAATCT		GCTCTGGAAC	TTCTGTCGTT		2000
GATTTACAGG	AGGAGATATT		CTTCACCTGG		2000
ACCTTAAGAG	TAAATATTAC		TCACAAAGAT		2100
AATTCGCTAC	GCTTCTACTA		ATTCCATACA		2100
GAAGACCTAT	TAATCAGGGT		CAACTATGAG		2200
AATTTACAGT	CCGGAAGCTT		GGTTTTACTA		2200
CTTTTCAAAT	GGATCAAGTG	TATTTACGTT		GTCTTCAATT	2300
CAGGCAATGA	AGTTTATATA				2000
•		TTTAGAAAGA	GCACAAAAGG	CESTEAATEA	2400
GCTGTTTACT	TETTECAATE	AAATCGGGTT	AAAAACARAT	GTGACGGATT	2400
					0500
TRICTION	ADDADADADA	AATTTAGTTG	MOTOR	ATROCASCO	∠ 500
ACTTACTON		ATTETCCGAG	TODA A A CTTO	ALGUGAAGUG	0100
TARACAACT	ARACCETECC	TACTTCAAGA	CTACCAAAUITU	AGAGGGATCA	2600
HIRUMCHHU (חטאבנטוטטב	TGGAGAGGAA	GIALGGAIAI	TACCATCCAA	

GGAGGCGATG ACGTATTCAA AGAGAATTAC GTTACGCTAT TGGGTACCTT 2700 TGATGAGTGC TATCCAACGT ATTTATATCA AAAAATAGAT GAGTCGAAAT TAAAAGCCTA TACCCGTTAT CAATTAAGAG GGTATATCGA AGATAGTCAA 2800 GACTTAGAAA TCTATTTAAT TCGCTACAAT GCAAAACATG AAACAGTAAA TGTGCCAGGT ACGGGTTCCT TATGGCCGCT TTCAGCCCAA AGTCCAATCG 2900 GAAAGTGTGG AGAGCCGAAT CGATGCGCGC CACACCTTGA ATGGAATCCT GACTTAGATT GTTCGTGTAG GGATGGAGAA AAGTGTGCCC ATCATTCGCA 3000 TCATTTCTCC TTAGACATTG ATGTAGGATG TACAGACTTA AATGAGGACC TAGGTGTATG GGTGATCTTT AAGATTAAGA CGCAAGATGG GCACGCAAGA 3100 CTAGGGAATC TAGAGTTTCT CGAAGAGAAA CCATTAGTAG GAGAAGCGCT AGCTCGTGTG AAAAGAGCGG AGAAAAAATG GAGAGACAAA CGTGAAAAAT 3200 TGGAATGGGA AACAAATATC GTTTATAAAG AGGCAAAAGA ATCTGTAGAT GCTTTATTTG TAAACTCTCA ATATGATCAA TTACAAGCGG ATACGAATAT 3300 TGCCATGATT CATGCGGCAG ATAAACGTGT TCATAGCATT CGAGAAGCTT ATCTGCCTGA GCTGTCTGT.G ATTCCGGGTG TCAATGCGGC TATTTTTGAA GAATTAGAAG GGCGTATTTT CACTGCATTC TCCCTATATG ATGCGAGAAA TGTCATTAAA AATGGTGATT TTAATAATGG CTTATCCTGC TGGAACGTGA 3500 AAGGGCATGT AGATGTAGAA GAACAAAACA ACCAACGTTC GGTCCTTGTT CTTCCGGAAT GGGAAGCAGA AGTGTCACAA GAAGTTCGTG TCTGTCCGGG 3600 TCGTGGCTAT ATCCTTCGTG TCACAGCGTA CAAGGAGGGA TATGGAGAAG GTTGCGTAAC CATTCATGAG ATCGAGAACA ATACAGACGA ACTGAAGTTT 3700 AGCAACTGCG TAGAAGAGGA AATCTATCCA AATAACACGG TAACGTGTAA TGATTATACT GTAAATCAAG AAGAATACGG AGGTGCGTAC ACTTCTCGTA 3800 ATCGAGGATA TAACGAAGCT CCTTCCGTAC CAGCTGATTA TGCGTCAGTC TATGAAGAAA AATCGTATAC AGATGGACGA AGAGAGAATC CTTGTGAATT TAACAGAGGG TATAGGGATT ACACGCCACT ACCAGTTGGT TATGTGACAA AAGAATTAGA ATACTTCCCA GAAACCGATA AGGTATGGAT TGAGATTGGA 4000 GAAACGGAAG GAACATTTAT CGTGGACAGC GTGGAATTAC TCCTTATGGA GGAA (end HD-1)

FIG. 9B

E C IPYNCLSNPE VEVLGGERIE MDNNPNIN T P Ι D Ι S \mathbf{L} S L TQFLLSEF V Р G A G F V L G Y Ι Ρ S 0 WDAF LVO Ι Ε L Ι 0 Ι Ε Ι Ι F G 0 N GLSNLYQIYAE S F R Ε W Α Q A I S RLE ALR Ε EMRI QFNDMNSA L T T Α Ι Ρ F A V Р ΥV S V L R D V S G 0 Р L \mathbf{L} S V Q AAN L H LV F G N Т Ι S R Y N D L T R L Ι Y D Y V F D Α T N Т G L Ε R V W G Р D S R D W VRYN 0 F R R Ε L T L V D S R R ΥP I R Т V S Q L T R Ε Ι Y Ι VA \mathbf{L} F P N Y R G S A QG Ι E R S I R S P Η L М Ι L Ε N F D G S F D V M A Ι \mathbf{T} T Α Η R G ΥΥ Y W S GHQ Ι S Ρ V S G N S Ι Y D GNA Ρ Q Q R I VAQ L G Q Y F \mathbf{T} F L Y G Т Μ Α G V R P QЬ S VLD G Т Ε Т S S Т LΥ R R P F N I G INN Q F KSGTVD L N E ΙP P ΥR S Q NNN V Т S S N P S A V S G F S N S S S Ι R S HRL S Η VSMF R V Ι R 0 Ε F Ε F N N Ι Ι P S S Q Ι T Q Ι P L T K S T F S Q H R S Α W S I S V V K G Ρ G F Т G G D ΙL R R T ₽ G Q T G S G T R Ι R Y A S T T N L F Η T Ι TA Р L S QRYRV Q V F S T M S S G S N LQ S G S F R V N 0 G N Α G R P Ι Ι S T L S A H V F N S G N E V Y F S V F T F N S N G F Ε YDLE R A Q K Α V N E L F \mathbf{T} S Ε Ε Т Α Ε Ι F Ρ Α V NLV Ε C L S D E F C T Y I DQV S Ν 0 Ι G K T D V D Η F КН AKRLSDERN L L Q D Ρ N Ε ΚO E LS Ε ΚV Ι Т Q G G D D V F KEN Y WR G S T D Ι Ι Ν R Q LD R G CYP T KID Ε S K L K Α Y Т R Y ΥL ΥQ Т L LG T F D \mathbf{E} T Ρ G Т IRYNA КН Ε V N V G Y Ε D S Q DL Ε Ι ΥL GKC GΕ R C P Η Ε Ρ S P Ι PNΑ \mathbf{L} W N P L S A Q G S \mathbf{L} W R D G E K C Α H H S H H F S L D Ι D V G C Т D D C S C K KTQDGHARLGN L Ε F L Ε V Ι F ΚI D L G V W L Ε G R V ΚR Α \mathbf{E} KKWR DKR Ε K Ν V EALA L F V N S Q Y D Q L Q Α D Т Ν Ι EAKE S V D Α I AYLP \mathbf{E} L S V P G V Ν Α DKR V Η S Ι RΕ S Y D ARNV I K N G D F Ν Ν G G R Ι F T A F S L S V L V L Ρ E W Ε V Ε E Q N N Q R KGH V D V ΤÀ V R V C ΡG R GY ΙL R V YKE G Y G Е G C V Т Ι Η T E Ι Y P N N \mathbf{T} V C D Y S Ν C V E E T DE.L ΚF N G G A ΥT S RNRG Y N ΕA Ρ S V P Α D Y Α S V Y Ε Y \mathbf{T} P V G DGRRENPCE FNRG YRDY L Ρ Y ΥT K S PETDKVWIEIGETEGTFIVD T KELE ΥF ELLLMEE

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(start HD-73) ATG GATAACAATC 400 CGAACATCAA TGAATGCATT CCTTATAATT GTTTAAGTAA CCCTGAAGTA GAAGTATTAG GTGGAGAAAG AATAGAAACT GGTTACACCC CAATCGATAT 500 TTCCTTGTCG CTAACGCAAT TTCTTTTGAG TGAATTTGTT CCCGGTGCTG GATTTGTGTT AGGACTAGTT GATATAATAT GGGGAATTTT TGGTCCCTCT 600 CAATGGGACG CATTTCTTGT ACAAATTGAA CAGTTAATTA ACCAAAGAAT AGAAGAATTC GCTAGGAACC AAGCCATTTC TAGATTAGAA GGACTAAGCA 700 ATCTTTATCA AATTTACGCA GAATCTTTTA GAGAGTGGGA AGCAGATCCT CAGTGCCCTT ACAACCGCTA TTCCTCTTTT TGCAGTTCAA AATTATCAAG TTCCTCTTTT ATCAGTATAT GTTCAAGCTG CAAATTTACA TTTATCAGTT TTGAGAGATG TTTCAGTGTT TGGACAAAGG TGGGGATTTG ATGCCGCGAC TATCAATAGT CGTTATAATG ATTTAACTAG GCTTATTGGC AACTATACAG 1000 ATTATGCTGT ACGCTGGTAC AATACGGGAT TAGAACGTGT ATGGGGACCG GATTCTAGAG ATTGGGTAAG GTATAATCAA TTTAGAAGAG AATTAACACT 1100 AACTGTATTA GATATCGTTG CTCTGTTCCC GAATTATGAT AGTAGAAGAT ATCCAATTCG AACAGTTTCC CAATTAACAA GAGAAATTTA TACAAACCCA 1200 AAGAAGTATT AGGAGTCCAC ATTTGATGGA TATACTTAAC AGTATAACCA 1300 TCTATACGGA TGCTCATAGG GGTTATTATT ATTGGTCAGG GCATCAAATA ATGGCTTCTC CTGTAGGGTT TTCGGGGCCA GAATTCACTT TTCCGCTATA 1400 TGGAACTATG GGAAATGCAG CTCCACAACA ACGTATTGTT GCTCAACTAG GTCAGGGCGT GTATAGAACA TTATCGTCCA CTTTATATAG AAGACCTTTT 1500 AATATAGGGA TAAATAATCA ACAACTATCT GTTCTTGACG GGACAGAATT TGCTTATGGA ACCTCCTCAA ATTTGCCATC CGCTGTATAC AGAAAAAGCG 1600 GAACGGTAGA TICGCTGGAT GAAATACCGC CACAGAATAA CAACGTGCCA CCTAGGCAAG GATTTAGTCA TCGATTAAGC CATGTTTCAA TGTTTCGTTC 1700 AGGCTTTAGT AATAGTAGTG TAAGTATAAT AAGAGCT (end hd-73) (start HD-1) CCAACGT TTTCTTGGCA GCATCGCAGT 1900 GCTGAATTTA ATAATATAAT TCCTTCATCA CAAATTACAC AAATACCTTT AACAAAATCT ACTAATCTTG GCTCTGGAAC TTCTGTCGTT AAAGGACCAG 2000 GATTTACAGG AGGAGATATT CTTCGAAGAA CTTCACCTGG CCAGATTTCA ACCTTAAGAG TAAATATTAC TGCACCATTA TCACAAAGAT ATCGGGTAAG 2100 AATTCGCTAC GCTTCTACTA CAAATTTACA ATTCCATACA TCAATTGACG GAAGACCTAT TAATCAGGGT AATTTTTCAG CAACTATGAG TAGTGGGAGT 2200 AATTTACAGT CCGGAAGCTT TAGGACTGTA GGTTTTACTA CTCCGTTTAA CTTTTCAAAT GGATCAAGTG TATTTACGTT AAGTGCTCAT GTCTTCAATT 2300 CAGGCAATGA AGTTTATATA GATCGAATTG AATTTGTTCC GGCAGAAGTA ACCTTTGAGG CAGAATATGA TTTAGAAAGA GCACAAAAGG CGGTGAATGA 2400 GCTGTTTACT TCTTCCAATC AAATCGGGTT AAAAACAGAT GTGACGGATT ATCATATTGA TCAAGTATCC AATTTAGTTG AGTGTTTATC AGATGAATTT 2500 TGTCTGGATG AAAAACAAGA ATTGTCCGAG AAAGTCAAAC ATGCGAAGCG ACTTAGTGAT GAGCGGAATT TACTTCAAGA TCCAAACTTC AGAGGGATCA 2600 ATAGACAACT AGACCGTGGC TGGAGAGGAA GTACGGATAT TACCATCCAA GGAGGCGATG ACGTATTCAA AGAGAATTAC GTTACGCTAT TGGGTACCTT TGATGAGTGC TATCCAACGT ATTTATATCA AAAAATAGAT GAGTCGAAAT

TAAAAGCCTA TACCCGTTAT CAATTAAGAG GGTATATCGA AGATAGTCAA 2800 GACTTAGAAA TCTATTTAAT TCGCTACAAT GCAAAACATG AAACAGTAAA TGTGCCAGGT ACGGGTTCCT TATGGCCGCT TTCAGCCCAA AGTCCAATCG 2900 GAAAGTGTGG AGAGCCGAAT CGATGCGCGC CACACCTTGA ATGGAATCCT GACTTAGATT GTTCGTGTAG GGATGGAGAA AAGTGTGCCC ATCATTCGCA TCATTTCTCC TTAGACATTG ATGTAGGATG TACAGACTTA AATGAGGACC TAGGTGTATG GGTGATCTTT AAGATTAAGA CGCAAGATGG GCACGCAAGA 3100 CTAGGGAATC TAGAGTTTCT CGAAGAGAAA CCATTAGTAG GAGAAGCGCT AGCTCGTGTG AAAAGAGCGG AGAAAAAATG GAGAGACAAA CGTGAAAAAT 3200 TGBAATGGGA AACAAATATC GTTTATAAAG AGGCAAAAGA ATCTGTAGAT GCTTTATTTG TAAACTCTCA ATATGATCAA TTACAAGCGG ATACGAATAT 3300 TGCCATGATT CATGCGGCAG ATAAACGTGT TCATAGCATT CGAGAAGCTT ATCTGCCTGA GCTGTCTGTG ATTCCGGGTG TCAATGCGGC TATTTTTGAA 3400 GAATTAGAAG GGCGTATTTT CACTGCATTC TCCCTATATG ATGCGAGAAA TGTCATTAAA AATGGTGATT TTAATAATGG CTTATCCTGC TGGAACGTGA AAGGGCATGT AGATGTAGAA GAACAAAACA ACCAACGTTC GGTCCTTGTT CTTCCGGAAT GGGAAGCAGA AGTGTCACAA GAAGTTCGTG TCTGTCCGGG 3600 TCGTGGCTAT ATCCTTCGTG TCACAGCGTA CAAGGAGGGA TATGGAGAAG GTTGCGTAAC CATTCATGAG ATCGAGAACA ATACAGACGA ACTGAAGTTT 3700 AGCAACTGCG TAGAAGAGGA AATCTATCCA AATAACACGG TAACGTGTAA TGATTATACT GTAAATCAAG AAGAATACGG AGGTGCGTAC ACTTCTCGTA 3800 ATCGAGGATA TAACGAAGCT CCTTCCGTAC CAGCTGATTA TGCGTCAGTC TATGAAGAAA AATCGTATAC AGATGGACGA AGAGAGAATC CTTGTGAATT 3900 TAACAGAGGG TATAGGGATT ACACGCCACT ACCAGTTGGT TATGTGACAA AAGAATTAGA ATACTTCCCA GAAACCGATA AGGTATGGAT TGAGATTGGA 4000 GAAACGGAAG GAACATTTAT CGTGGACAGC GTGGAATTAC TCCTTATGGA GGAA (end HD-1)

FIG. 11B

M D N N P N I N E C I P Y N C L S N P E V E V L G G E R I E V L Ι S LSLTQFLLSEFV PGAG F I D Y OWDAFLVQIE O L INQRIEE F Ρ S Ι G RLEGLSNLYQIYAE S R Ε ARNQA I S F W A D EMRIQFNDMNSALTTA I P ΑV L F TNPALRE S NYQVPLL S VYVQAANLHL S VLR D V V F ΙG Y D Υ T Ι NSRYNDL T R L N Т WGFDAA G P D SRDWVRYNQFRRE L Т V YNT GLE R V W NYDSRRYPIRTVSQL T R E Ι VALFP I SFRGSAQGIEGSIRS PHLM Ι F D G D VLEN DAHKGEYYWSGHQIMA S P V G S G \mathbf{T} I Y Т PLY GTMGNAAPQQRIVAQLG QGVYR Т LYRRPFNIGINNQQLSVLDG S T ΤE F Y T YRKSGTVDSLDE Ι Ρ Ρ V O N NN S Ρ S A V S R S GFSNS S V S Ι IRA SHVS M F P R 0 G F S HRL Ι S Q Ι Т I Ρ Т T E F I Ρ S Q L F S W QHR S A N N P G Q G ΙL R R T S S V VKGP G F Т G D G S G Τ V R R ΥA S Т TNL F Т V I TAPLSQR ΥR Ι N SGS R V OGNFSATMS SGSNLQ F G R P I N SAHVFNSGN Т Р F N F S N G S S VF T L \mathbf{E} Ι S FEAEYDLERAQKAVN $\mathsf{E} \mathsf{L}$ ΙE FVPAEV T I G L K T D V T D Y H I D Q V S N L V E C L S D N O KQELSEKVKHAKRLSDE RNLLQ DPNF \mathbf{E} STDITIQGGDDVF ΚE V RGWRG RQLD YLYQKIDE F D Ε CYP T SKLKA Y T Y IYLIRYNAKHE T V V G SQDL Ε Ν R G Y ΕD IGKCGEPNR CAPHL Ε W WPLS AQSP \mathbf{L} G C S C R D GEKCAHHSHHF S L D IDV C T KIKTQDGHARLGNLE F WV I F L G V RVKRAEKKWRDKREKLE W ET N V G EALA S V D ALFVNSQYDQLQAD T N ΙA ΚE ΑK E REAYLPELSVIP G V N A A Ι F E Ε DKR V H S Ι LEGRI F Т A F SLYDARNVIKNGDF N N G \mathbf{L} S C EQNNQRSV V L P Ε W Ε Α Ε V S QE L VKGH V D V E TAYKE Y G Ε G C V T IHE V R V C P G R G Y ILRV G SNCVEE Ε I P Т Т C Y K F Y N N V Ν D ENNT DEL ΕE TSRNRGYNEA Ρ s v Р Α D Y A YGGAY D G R R E N P C E F N R G Y R D Y T Р L K S ΥT KELEYFPETDKVWIEIGETEGT F IVDSV ELLLMEE